

# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/547,999  
Source: 1FWO  
Date Processed by STIC: 9/29/06

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 09/29/2006

PATENT APPLICATION: US/10/547,999

TIME: 15:00:43

Input Set : F:\SEQLIST.TXT

Output Set: N:\CRF4\09292006\J547999.raw

4 <110> APPLICANT: PORTNOY, DANIEL A.  
 5 CALENDAR, RICHARD  
 6 LAUER, PETER M.  
 8 <120> TITLE OF INVENTION: SITE SPECIFIC LISTERIA INTEGRATION VECTORS AND METHODS FOR  
 USING THE SAME  
 11 <130> FILE REFERENCE: BERK-017CIP  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/547,999  
 C--> 13 <141> CURRENT FILING DATE: 2005-09-07  
 13 <150> PRIOR APPLICATION NUMBER: US03/13492  
 14 <151> PRIOR FILING DATE: 2003-04-29  
 16 <150> PRIOR APPLICATION NUMBER: 10/136,860  
 17 <151> PRIOR FILING DATE: 2002-04-30  
 19 <160> NUMBER OF SEQ ID NOS: 28  
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 25  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Artificial Sequence  
 28 <220> FEATURE:  
 29 <223> OTHER INFORMATION: oligonucleotide  
 31 <400> SEQUENCE: 1  
 32 ggacgtcatt aaccctcact aaagg 25  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 25  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: oligonucleotide  
 42 <400> SEQUENCE: 2  
 43 ggacgtcaat acgactcact atagg 25  
 45 <210> SEQ ID NO: 3  
 46 <211> LENGTH: 25  
 47 <212> TYPE: DNA  
 48 <213> ORGANISM: Artificial Sequence  
 50 <220> FEATURE:  
 51 <223> OTHER INFORMATION: oligonucleotide  
 53 <400> SEQUENCE: 3  
 54 ggacgtcgct atttaacgac cctgc 25  
 56 <210> SEQ ID NO: 4  
 57 <211> LENGTH: 36  
 58 <212> TYPE: DNA  
 59 <213> ORGANISM: Artificial Sequence  
 61 <220> FEATURE:  
 62 <223> OTHER INFORMATION: oligonucleotide

*see p. 6*

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64 <400> SEQUENCE: 4
65 gagctgcagg agaattacaa cttatatcgt atggggg 36
67 <210> SEQ ID NO: 5
68 <211> LENGTH: 33
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial Sequence
72 <220> FEATURE:
73 <223> OTHER INFORMATION: oligonucleotide
75 <400> SEQUENCE: 5
76 gcactgcagc cgcttgccct catctgttac gcc 33
78 <210> SEQ ID NO: 6
79 <211> LENGTH: 33
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: oligonucleotide
86 <400> SEQUENCE: 6
87 catgcatgcc tctcgccctgt cccctcagtt cag 33
89 <210> SEQ ID NO: 7
90 <211> LENGTH: 29
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: oligonucleotide
97 <400> SEQUENCE: 7
98 gtagatctta actttccatg cgagaggag 29
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 36
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: oligonucleotide
108 <400> SEQUENCE: 8
109 gggcatgcga taaaaagcaa tctatagaaa aacagg 36
111 <210> SEQ ID NO: 9
112 <211> LENGTH: 29
113 <212> TYPE: DNA
114 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: oligonucleotide
119 <400> SEQUENCE: 9
120 cctaagcttt cgatcatcat aattctgtc 29
122 <210> SEQ ID NO: 10
123 <211> LENGTH: 37
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: oligonucleotide
130 <400> SEQUENCE: 10

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131 gggcatgcag atctttttttt cagaaaatcc cagtacg          37
133 <210> SEQ ID NO: 11
134 <211> LENGTH: 24
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: oligonucleotide
141 <400> SEQUENCE: 11
142 ggtctagatc aagcacatac ctag          24
144 <210> SEQ ID NO: 12
145 <211> LENGTH: 25
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: oligonucleotide
152 <400> SEQUENCE: 12
153 cgggatcctg aagcttgga agcag          25
155 <210> SEQ ID NO: 13
156 <211> LENGTH: 22
157 <212> TYPE: DNA
158 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: oligonucleotide
163 <400> SEQUENCE: 13
164 ctcatgaact agaaaaatgt gg          22
166 <210> SEQ ID NO: 14
167 <211> LENGTH: 22
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: oligonucleotide
174 <400> SEQUENCE: 14
175 tgaagtaaac ccgcacacga tg          22
177 <210> SEQ ID NO: 15
178 <211> LENGTH: 24
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: oligonucleotide
185 <400> SEQUENCE: 15
186 tgtaacatgg aggttctggc aatc          24
188 <210> SEQ ID NO: 16
189 <211> LENGTH: 24
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: oligonucleotide
196 <400> SEQUENCE: 16
197 acataatcag tccaaagtag atgc          24

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Input Set : F:\SEQLIST.TXT

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```

199 <210> SEQ ID NO: 17
200 <211> LENGTH: 21
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: oligonucleotide
207 <400> SEQUENCE: 17
208 acgaatgtaa atattgagcg g                                21
210 <210> SEQ ID NO: 18
211 <211> LENGTH: 29
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: oligonucleotide
218 <400> SEQUENCE: 18
219 gaagatctcc aaaaataaac aggtggtgg                        29
221 <210> SEQ ID NO: 19
222 <211> LENGTH: 29
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: oligonucleotide
229 <400> SEQUENCE: 19
230 catgcatgcg tggagggaaa gaagaacgc                        29
232 <210> SEQ ID NO: 20
233 <211> LENGTH: 18
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: oligonucleotide
240 <400> SEQUENCE: 20
241 ggagggaaaag aagaacgc                                    18
243 <210> SEQ ID NO: 21
244 <211> LENGTH: 24
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: oligonucleotide
251 <400> SEQUENCE: 21
252 tatcagacct aacccaaacc ttcc                             24
254 <210> SEQ ID NO: 22
255 <211> LENGTH: 24
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: oligonucleotide
262 <400> SEQUENCE: 22
263 aatcgcaaaa taaaaatctt ctcg                             24
265 <210> SEQ ID NO: 23

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## RAW SEQUENCE LISTING

DATE: 09/29/2006

PATENT APPLICATION: US/10/547,999

TIME: 15:00:43

Input Set : F:\SEQLIST.TXT

Output Set: N:\CRF4\09292006\J547999.raw

```

266 <211> LENGTH: 21
267 <212> TYPE: DNA
268 <213> ORGANISM: Artificial Sequence
270 <220> FEATURE:
271 <223> OTHER INFORMATION: oligonucleotide
273 <400> SEQUENCE: 23
274 gtcaaaacat acgctcttat c 21
276 <210> SEQ ID NO: 24
277 <211> LENGTH: 6101
278 <212> TYPE: DNA
279 <213> ORGANISM: Shuttle integration vector pPL1
281 <220> FEATURE:
282 <221> NAME/KEY: misc_feature
283 <222> LOCATION: 3676
284 <223> OTHER INFORMATION: n = A,T,C or G
286 <400> SEQUENCE: 24
287 gacgtcaata cgactcacta tagggcgaat tgggtaccgg gccccccctc gaggtcgacg 60
288 gtatcgataa gcttgatata gaattcctgc agcccggggg atccactagt tctagagcgg 120
289 ccgccaccgc ggtggagctc cagcttttgt tcccttttagt gagggttaat gacgtcgcta 180
290 tttaacgacc ctgccctgaa ccgacgaccg ggtcgaaatt gctttcgaat ttctgccatt 240
291 catccgctta ttatcactta ttcaggcgta gcaccaggcg tttaagggca ccaataactg 300
292 ccttaaaaaa attacgcccc gccctgccac tcatcgagc actggtgtaa ttcattaagc 360
293 attctgccga catggaagcc atcacagacg gcatgatgaa cctgaatcgc cagcggcatc 420
294 agcaccttgt cgccttgctg ataatatattg cccatggtga aaacgggggc gaagaagttg 480
295 tccatattgg ccacgtttaa atcaaaactg gtgaaactca cccagggatt ggctgagacg 540
296 aaaaacatat tctcaataaa cccttttaggg aaataggcca ggttttcacc gtaacacgcc 600
297 acatcttgcg aatatatgtg tagaaactgc cggaaatcgt cgtgggtattc actccagagc 660
298 gatgaaaacg tttcagtttg ctcatggaaa acggtgtaac aaggggtgaac actatcccat 720
299 atcaccagct caccgtcttt cattgccata cggaaattcc gatgagcatt catcaggcgg 780
300 gcaagaatgt gaataaaggc cggataaaac ttgtgcttat ttttctttac ggtcttttaa 840
301 aaggccgtaa tatccagctg aacgggtctg ttataggtag attgagcaac tgactgaaat 900
302 gcctcaaaa gtctctttac atgccattgg gatatatcaa cgggtggtata tccagtgatt 960
303 tttttctcca ttttagcttc cttagctcct gaaaatctcg ataactcaa aaatacgcgc 1020
304 ggtagtgatc ttatttcatt atggtgaaag ttggaacctc ttacgtgccg atcaacgtct 1080
305 cattttcgcc aaaagttagc ccagggcttc ccggtatcaa cagggacacc aggatttatt 1140
306 tattctgcga agtgatcttc cgtcacagg atttattcgg cgcaaagtgc gtcgggtgat 1200
307 gctgccaact tactgattta gtgtatgat gtgtttttga ggtgctccag tggcttctgt 1260
308 ttctatcagc tgtccctcct gttcagctac tgacgggggt gtgcgtaacg gcaaaagcac 1320
309 cgccggacat cagcgttagc ggagtgtata ctggcttact atgttggcac tgatgagggt 1380
310 gtcagtgaag tgcttcatgt ggcaggagaa aaaaggctgc accggtgcgt cagcagaata 1440
311 tgtgatacag gatataattc gcttcctcgc tcaactgact gctacgctcg gtcgttcgac 1500
312 tgcggcgagc ggaataggct tacgaacggg gcggagattt cctggaagat gccaggaaga 1560
313 tacttaacag ggaagtgaga gggccgcggc aaagccgttt tccataggc tccgcccccc 1620
314 tgacaagcat cacgaaatct gacgctcaaa tcagtgggtg cgaaacccga caggactata 1680
315 aagataccag gcgtttcccc ctggcggtct cctcgtgcgc tctcctgttc ctgcctttcg 1740
316 gtttaccggt gtcattccgc tgttatggcc gcgtttgtct cattccacgc ctgacactca 1800
317 gttccgggta ggcagttcgc tccaagctgg actgtatgca cgaaccccc gttcagtcgg 1860
318 accgctgcgc cttatccggt aactatcgtc ttgagtccaa cccggaaaga catgcaaaag 1920
319 caccactggc agcagccact ggtaattgat ttagaggagt tagtcttgaa gtcatgcgcc 1980

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/547,999

DATE: 09/29/2006  
TIME: 15:00:44

FYI

Input Set : F:\SEQLIST.TXT  
Output Set: N:\CRF4\09292006\J547999.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:24; N Pos. 3676

Seq#:25; N Pos. 695

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/547,999

DATE: 09/29/2006

TIME: 15:00:44

Input Set : F:\SEQLIST.TXT

Output Set: N:\CRF4\09292006\J547999.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:3660

L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:660